

wherein the value R of the resistance being equal to $\rho L/\ell e$, the value of the length L , width ℓ , and the thickness e being defined such that a mass of the flat conductor can resist electrical arcing up to 300°C .

18. (Amended) A high voltage resistance, comprising:

at least one support and a flat conductor with length L , width ℓ and thickness e fixed to the support and with a given resistivity ρ ,

wherein the value R of the resistance being equal to $\rho L/\ell e$, the value of the length L , width ℓ , and the thickness e being defined such that a mass of the flat conductor can resist electrical arcing up to 300°C ,

wherein said resistance is folded on itself.

Please add new Claims 31 and 32 as follows:

31. (New) A high voltage resistance, comprising:

at least one support and a flat conductor with length L , width ℓ and a thickness e fixed to the support and with a given resistivity ρ ,

wherein the value R of the resistance being equal to $\rho L/\ell e$, the value of the length L , width ℓ , and the thickness e being defined such that a mass of the flat conductor can resist electrical arcing, and

wherein the flat conductor is in the shape of a coil.

32. (New) A high voltage resistance, comprising:

at least one support and a flat conductor with length L , width ℓ and thickness e fixed to the support and with a given resistivity ρ ,

wherein the value R of the resistance being equal to $\rho L/\ell e$, the value of the length L , width ℓ , and the thickness e being defined such that a mass of the flat conductor can resist electrical arcing,